

FIG. 1  
PRIOR ART

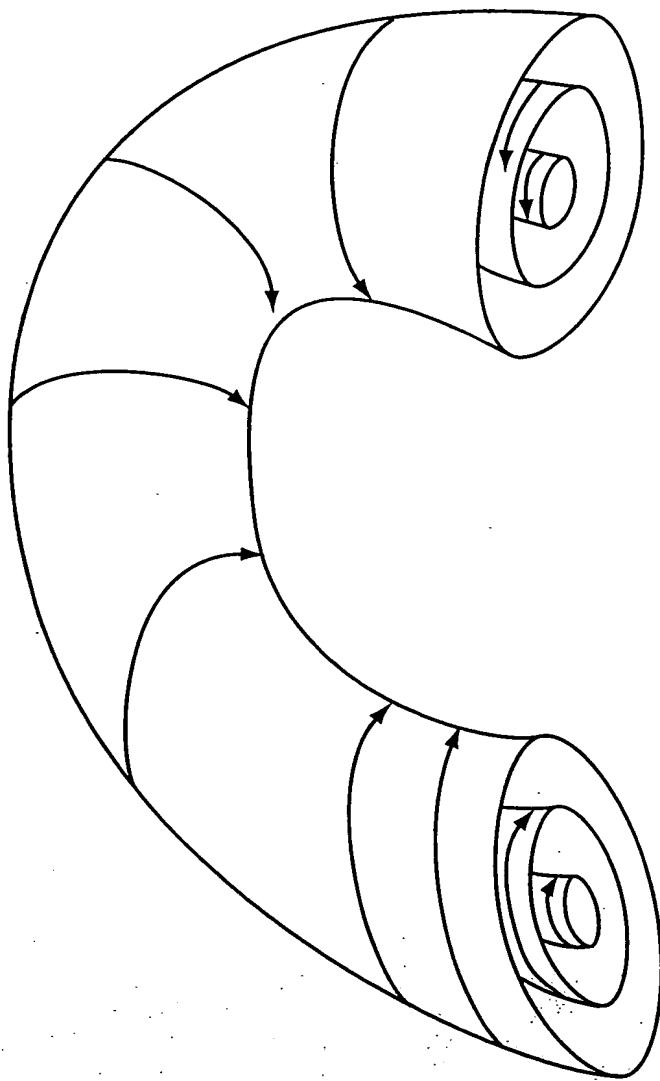


FIG. 2  
PRIOR ART

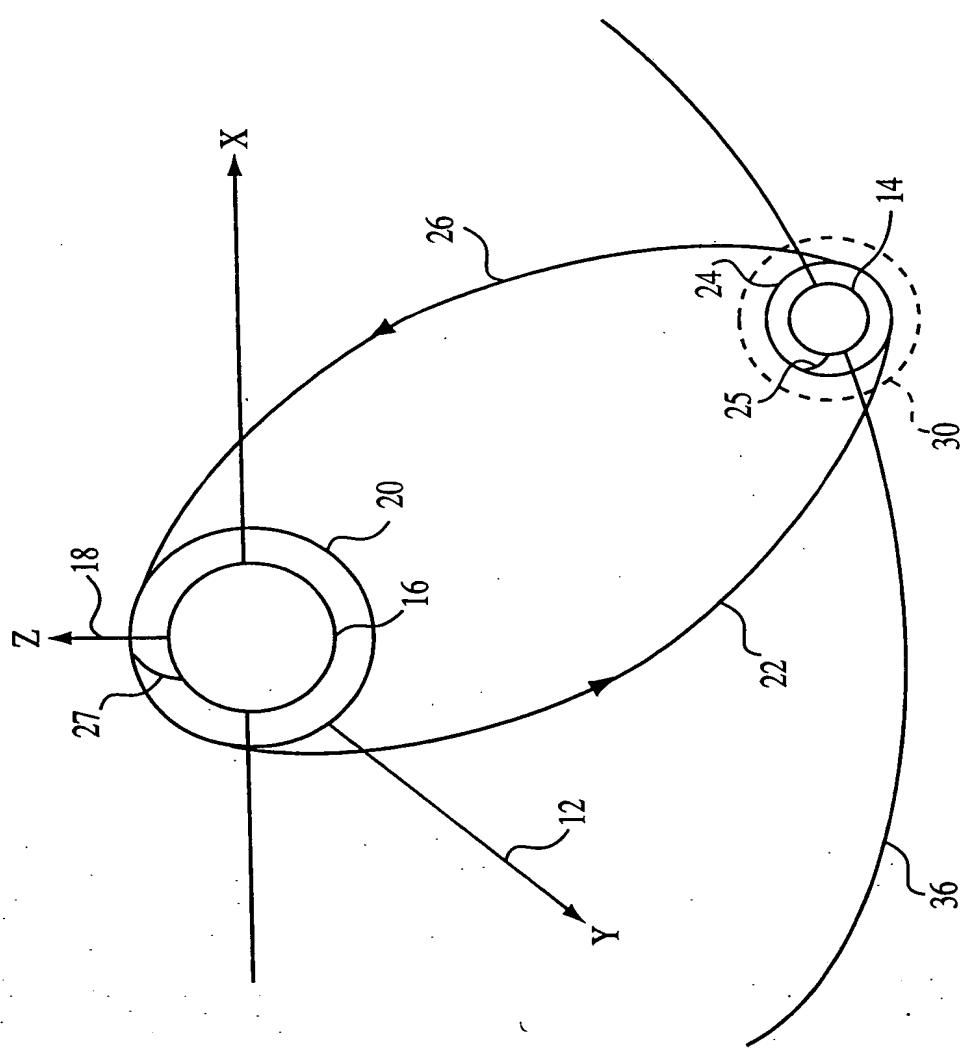


FIG. 3  
PRIOR ART

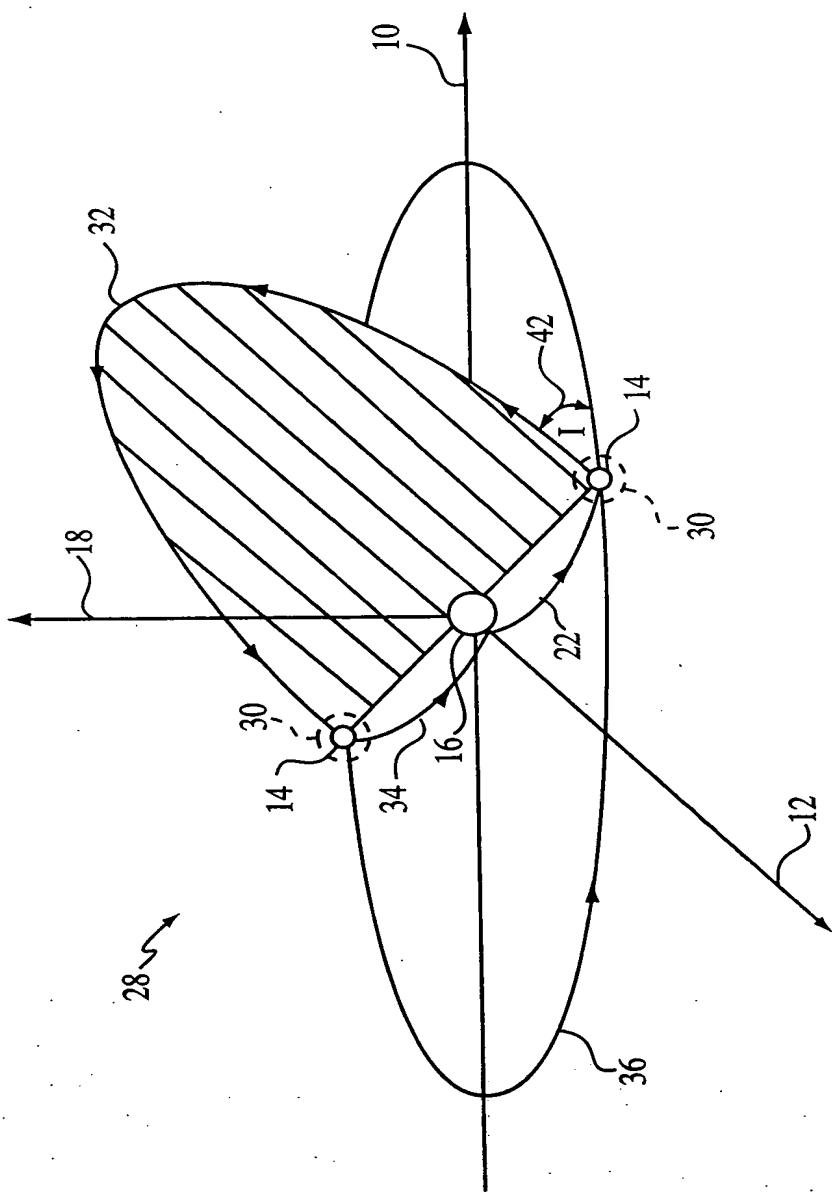


FIG. 4  
PRIOR ART

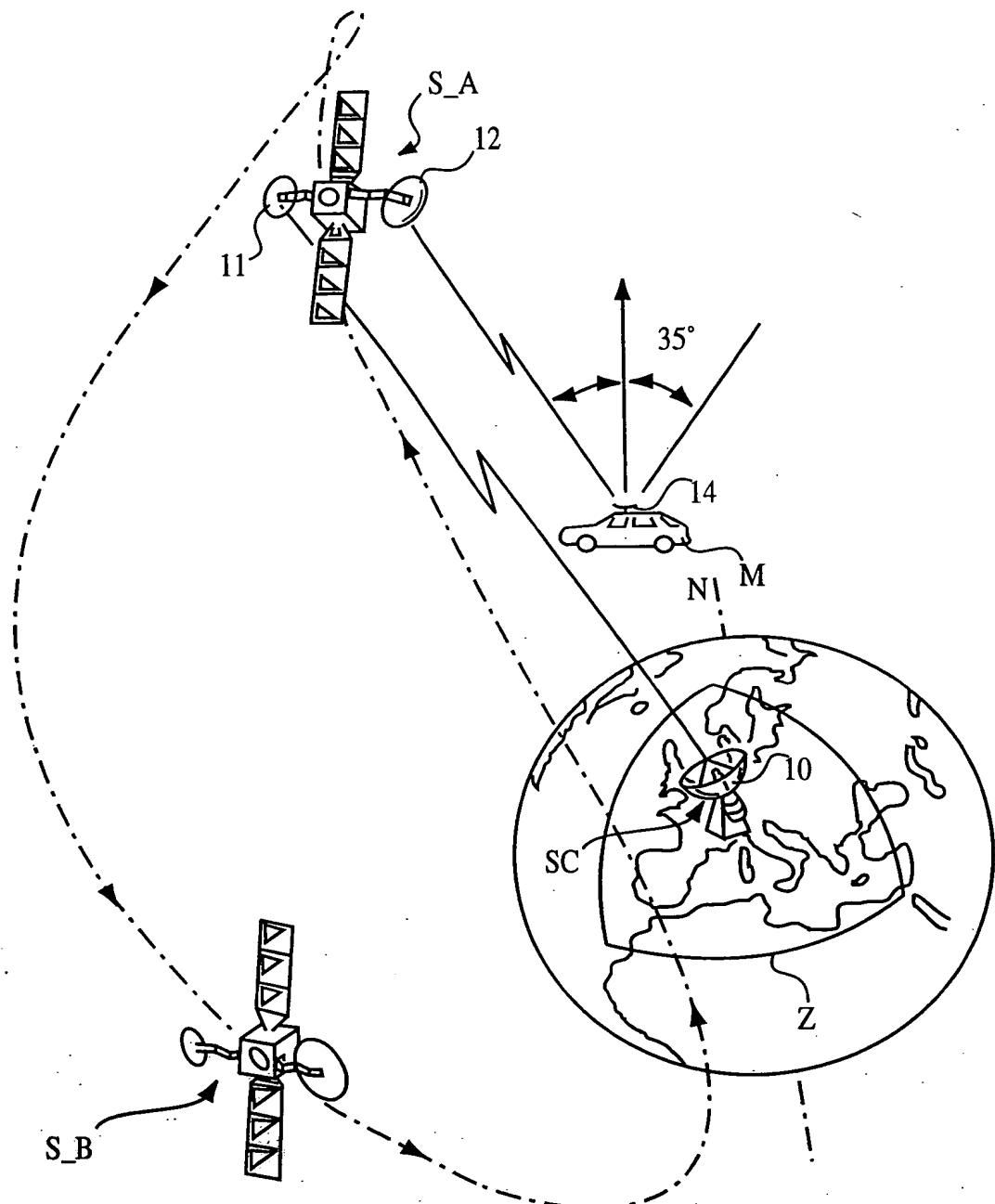
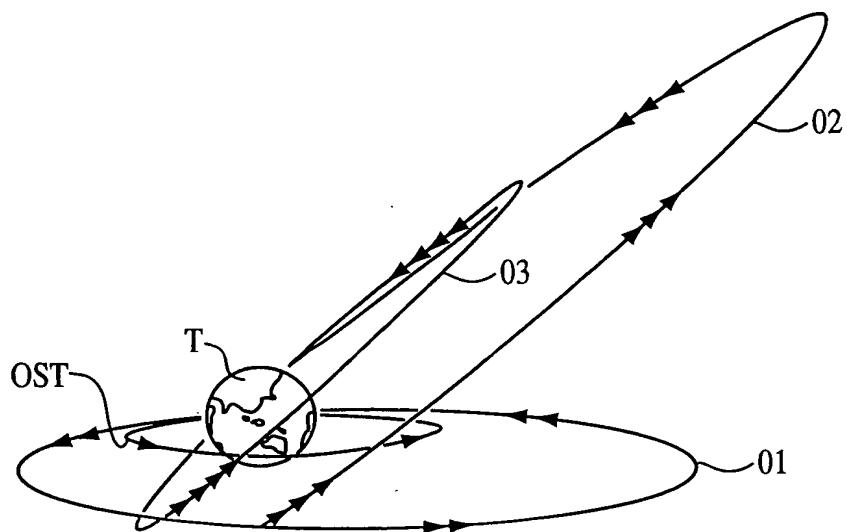


FIG. 5  
PRIOR ART

6/21



**FIG. 6**  
PRIOR ART

7/21

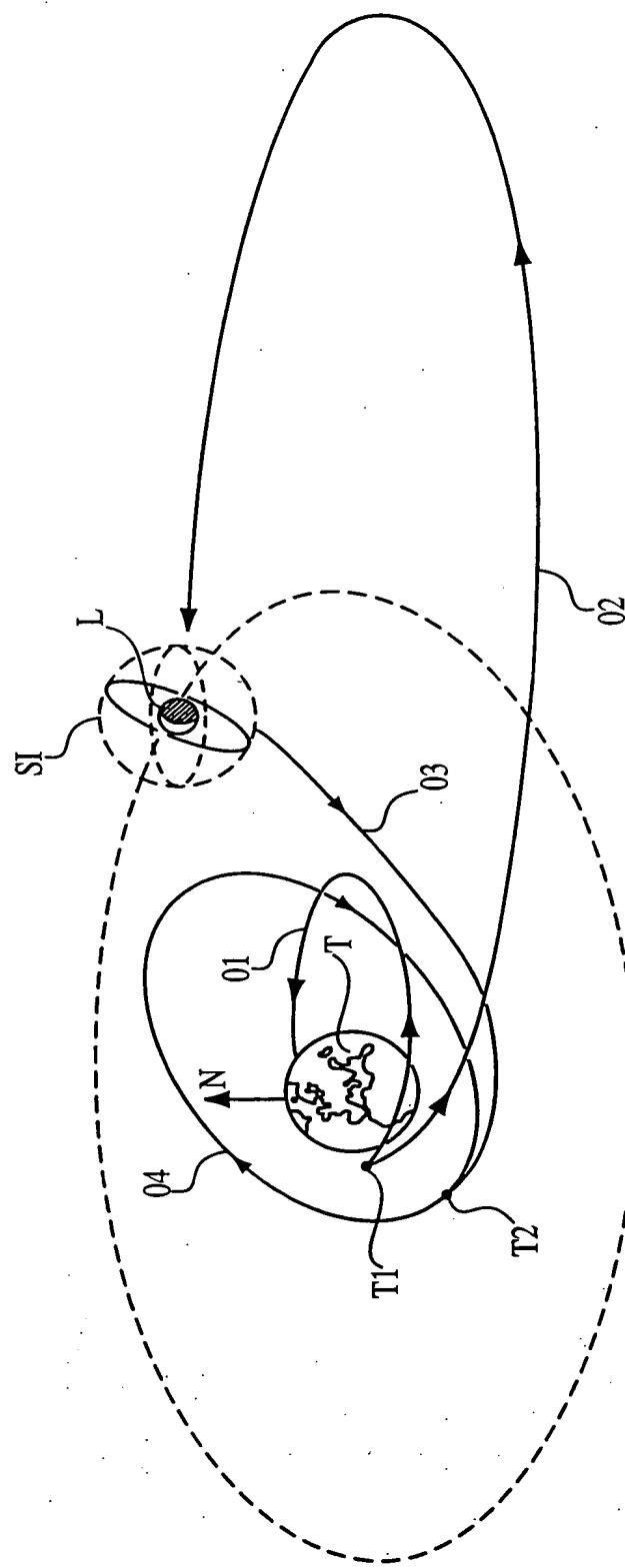


FIG. 7  
PRIOR ART

8/21

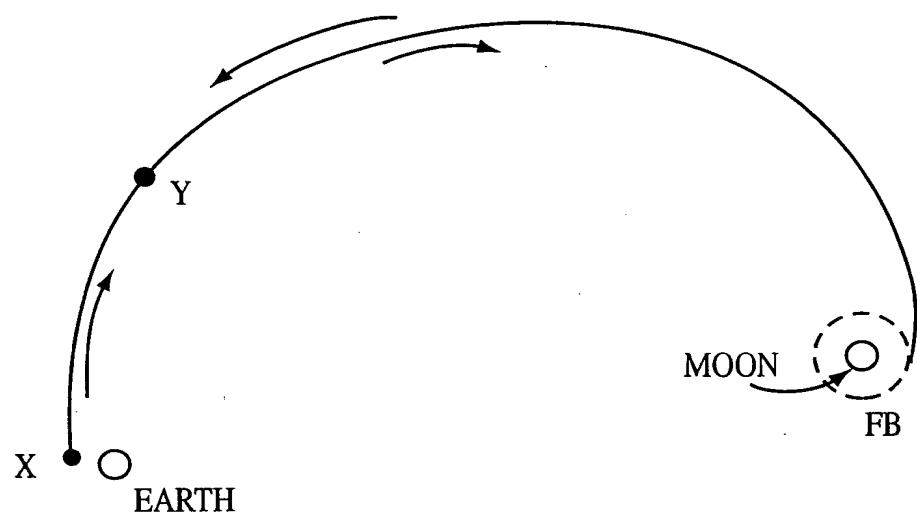


FIG. 8

9/21

IOD, BELBRUNO

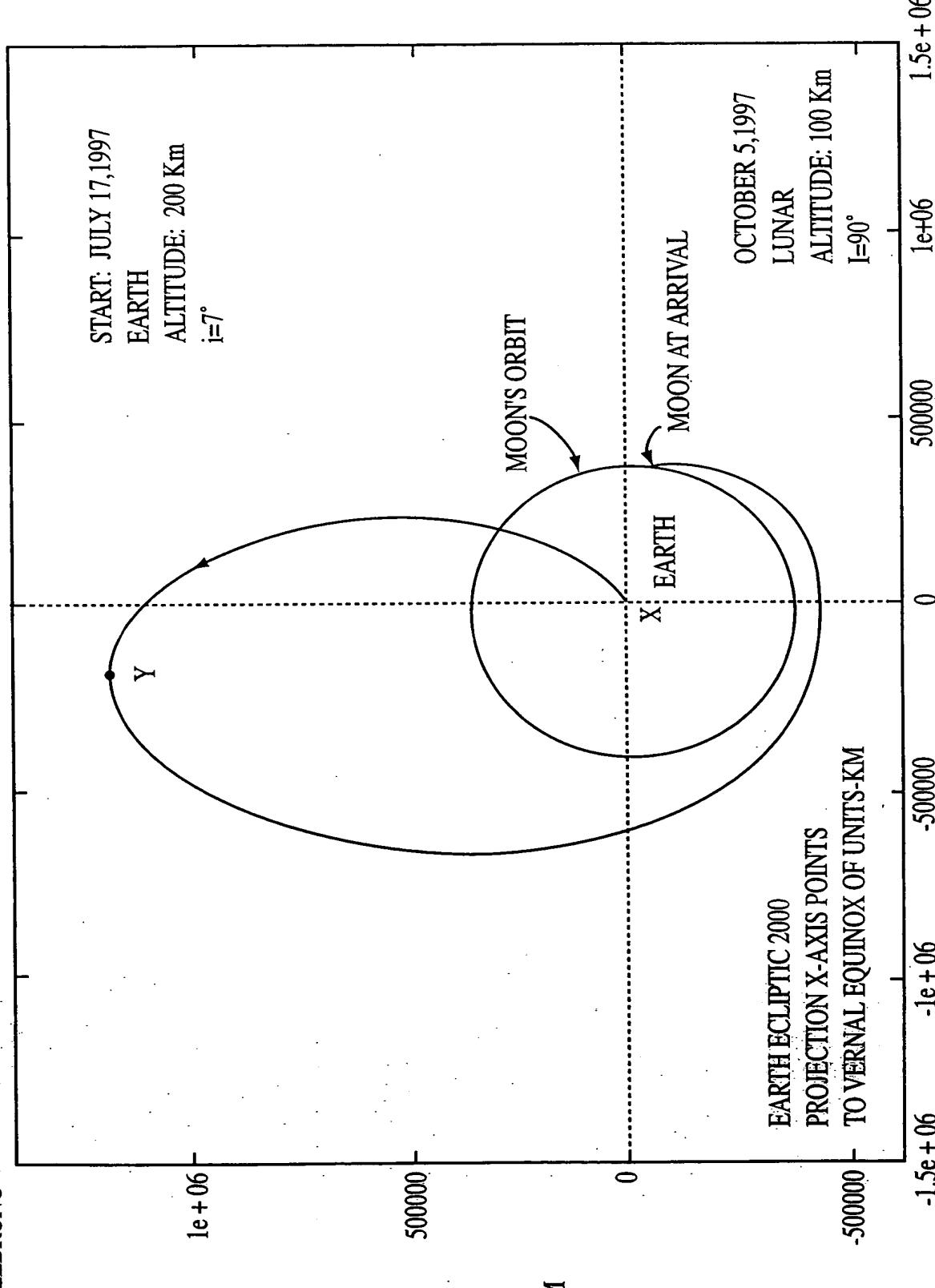


FIG. 9

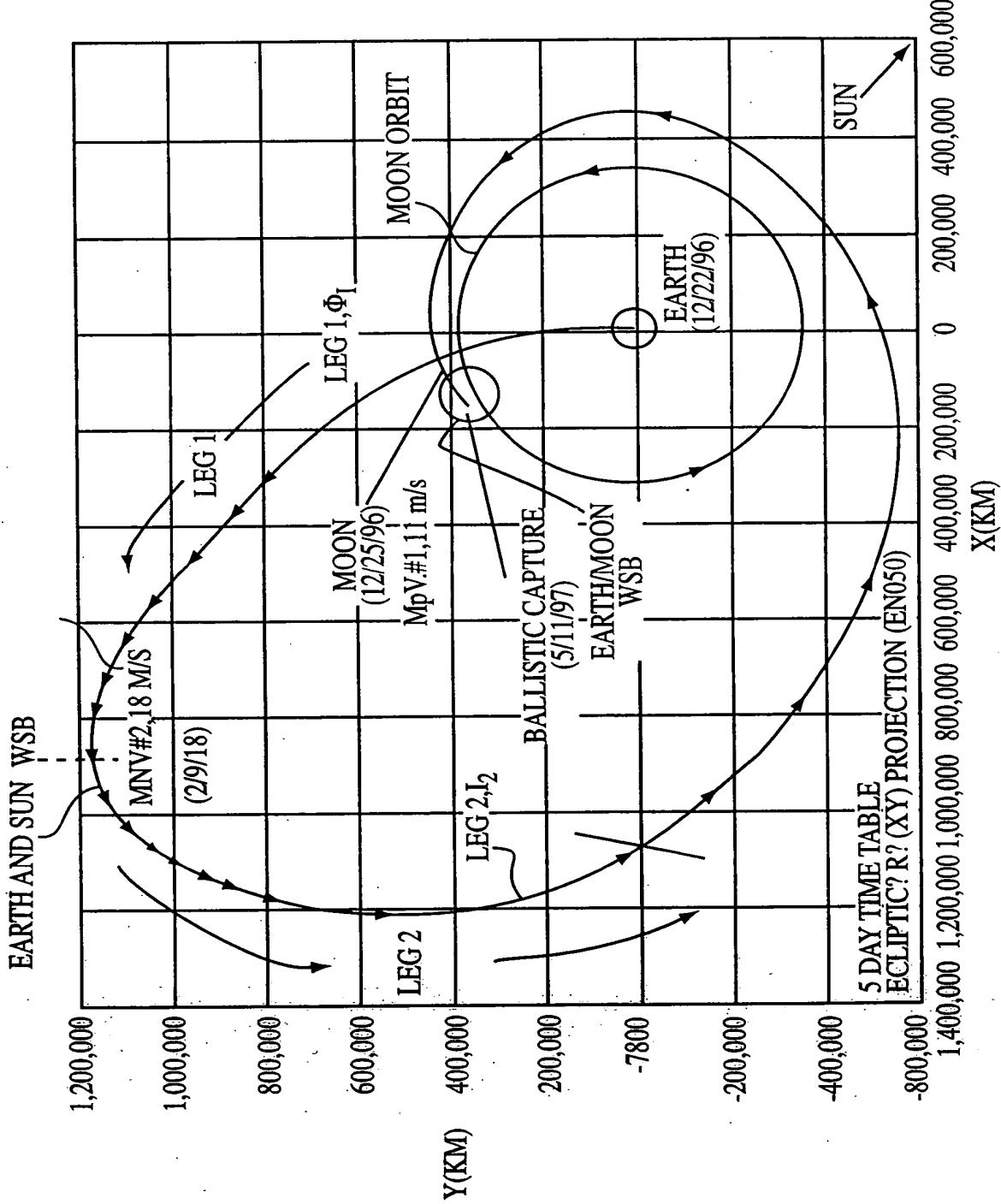


FIG. 10

11/21

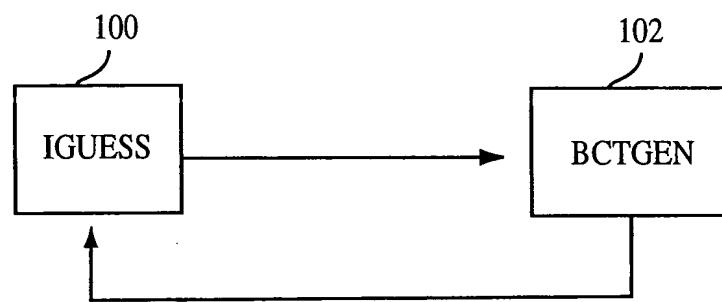


FIG. 11

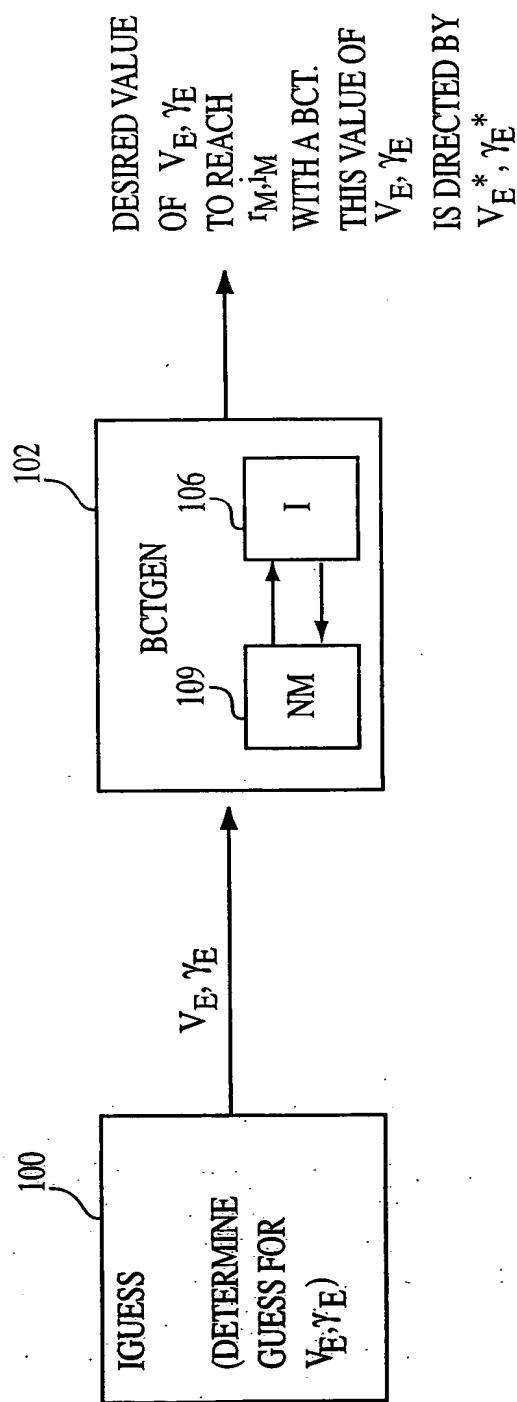


FIG. 11 A

13/21

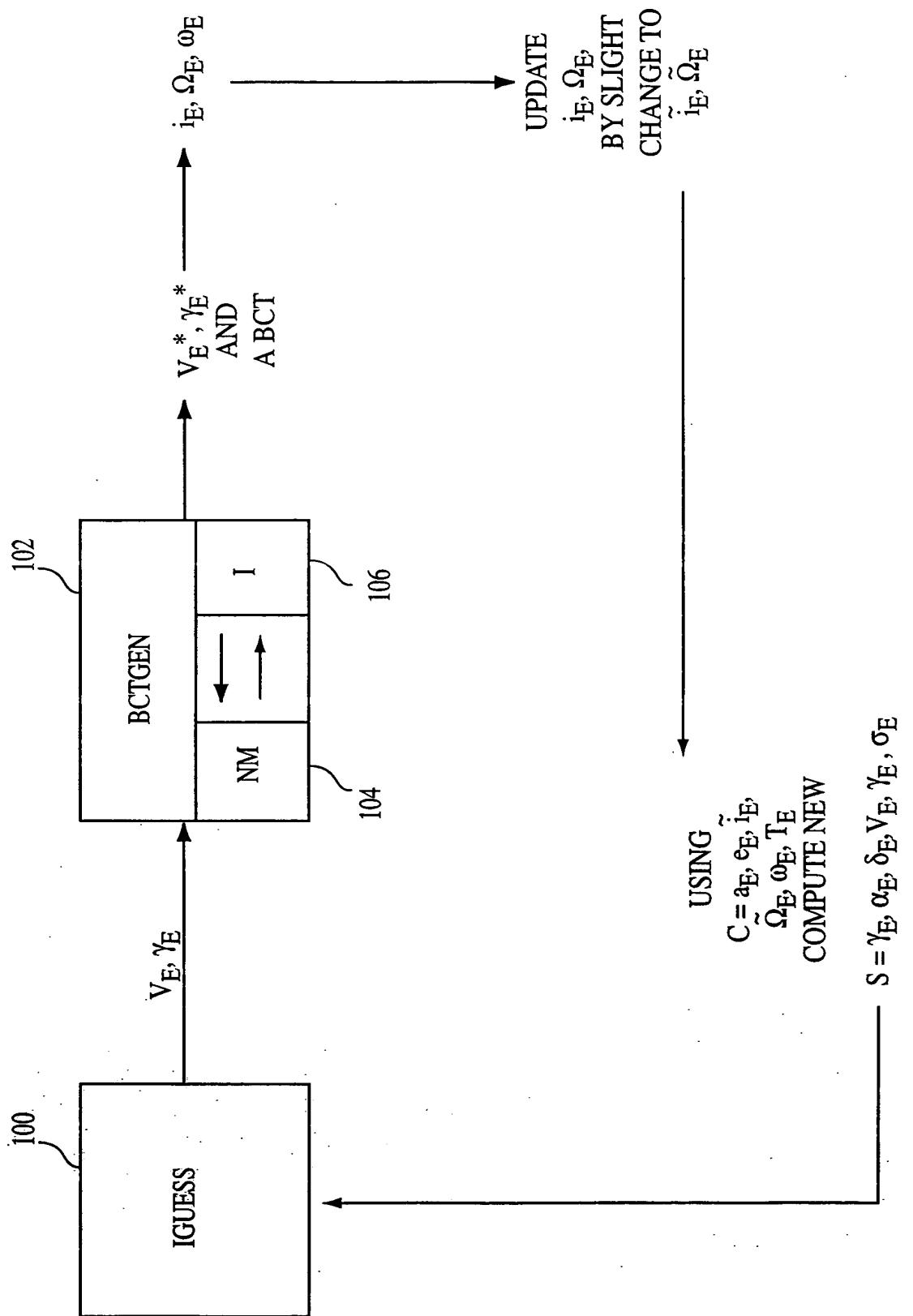


FIG. 11B

14/21

CURRENT AND PROJECTED UNMANNED LUNAR MISSIONS							
DATE	NO. LUNAR TRANSFER MISSIONS	MISSION NAME	PURPOSE	country	MASS (KG)	COST	
1991	1	BCT	HITEN	RS	JAPAN	200	100M
92	0						
93	1	H	CLEMENTINE	RS	US	200	50M
94	0						
95	0						
96	0						
97	1	H	LUNAR PROSPECTOR	RS	US	200	40M
98	1	BCT	LUNAR A	RS	JAPAN	2000	400M
99	1	BCT	BLUE MOON	RS	US	50	10M
2000	2		CLEMENTINE2	RS(H20) RS(H20)	US US	200 400	40M 80M
1	2			RS		400	80M
2	2			RS		400	80M
3	2			RS		400	80M
4	2			RS		600	120M
5	2			RS		600	120M
6	2			RS		600	120M
7	2			RS		600	120M
8	2			RS		600	120M
9	2			LB		22,500	4.5B
10	4			LB		22,500	4.5B
11	4			S		400	80M
12	4			S		400	80M
13	4			S		400	80M
14	6			RS, S		600	120M

TOTAL 11.608 B

RULE - 200 KG TO THE MOON EQUIVALENT TO 40 M.

H=HOHMANN, BCT = BALLISTIC CAPTURE TRANSFER

RS= ROBOTIC SCIENCE, LB = LUNAR BASE, C = COMMERCIAL, S = SUPPLIES

LB = 1 HABITAT (40 TONS), 1 H20 CONVERTER (4 TONS), 1 DISH ANTENNAE (.5 TONS),

M = MILLION, B=BILLION 1 ROVER, SUPPLIES (.5TONS)

FIG. 12

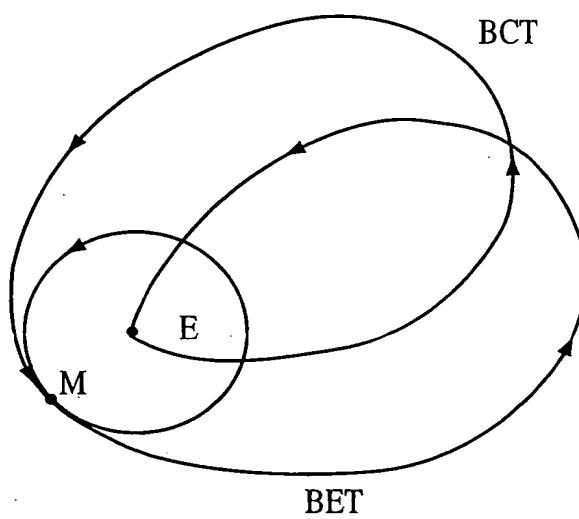


FIG. 13

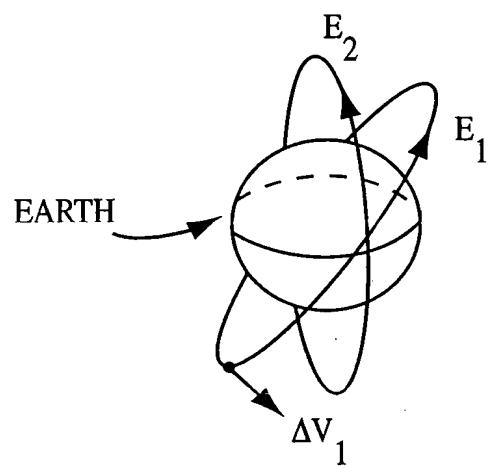


FIG. 14

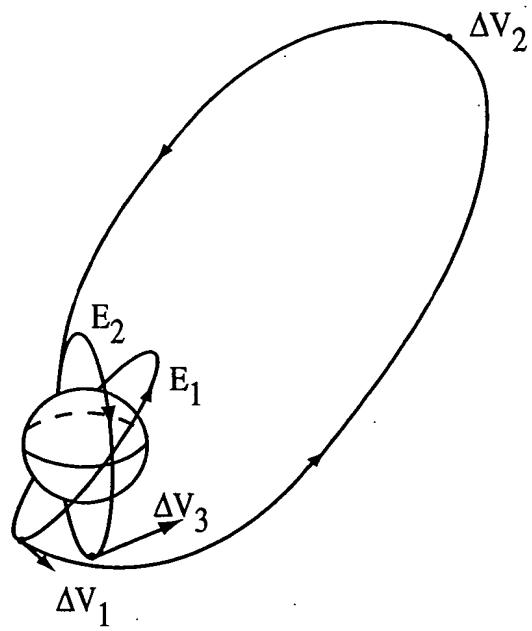


FIG. 15

18/21

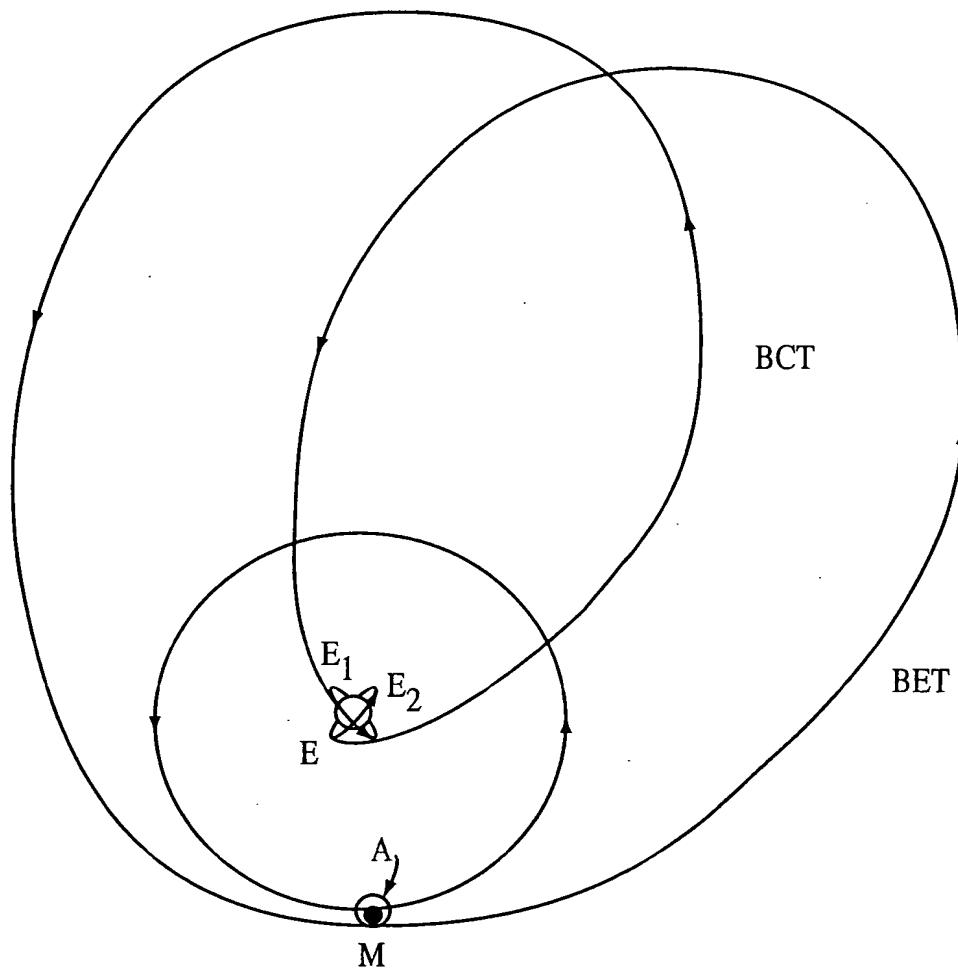


FIG. 16A

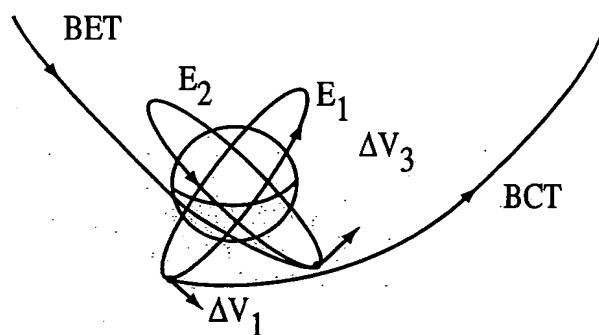


FIG. 16B

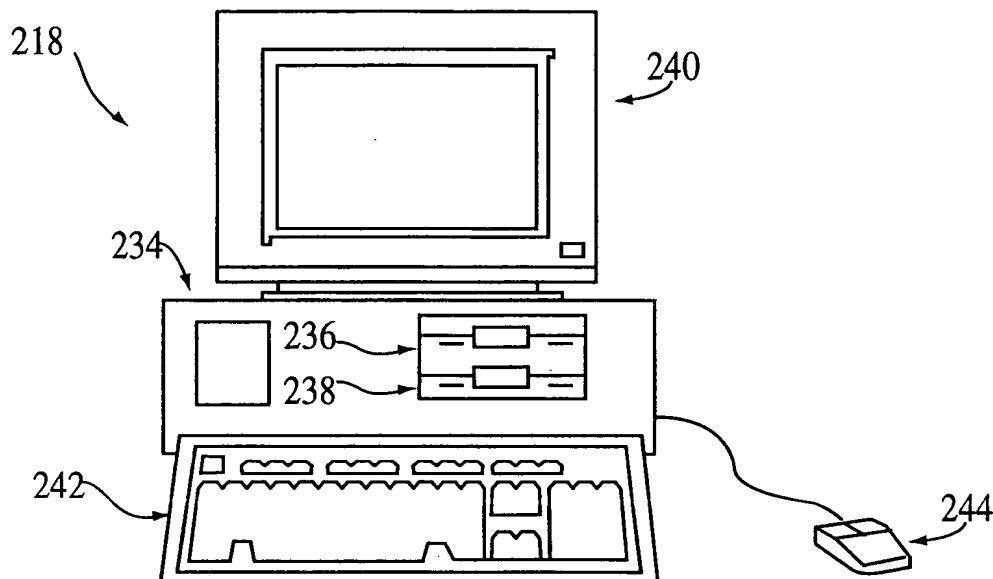


FIG. 17

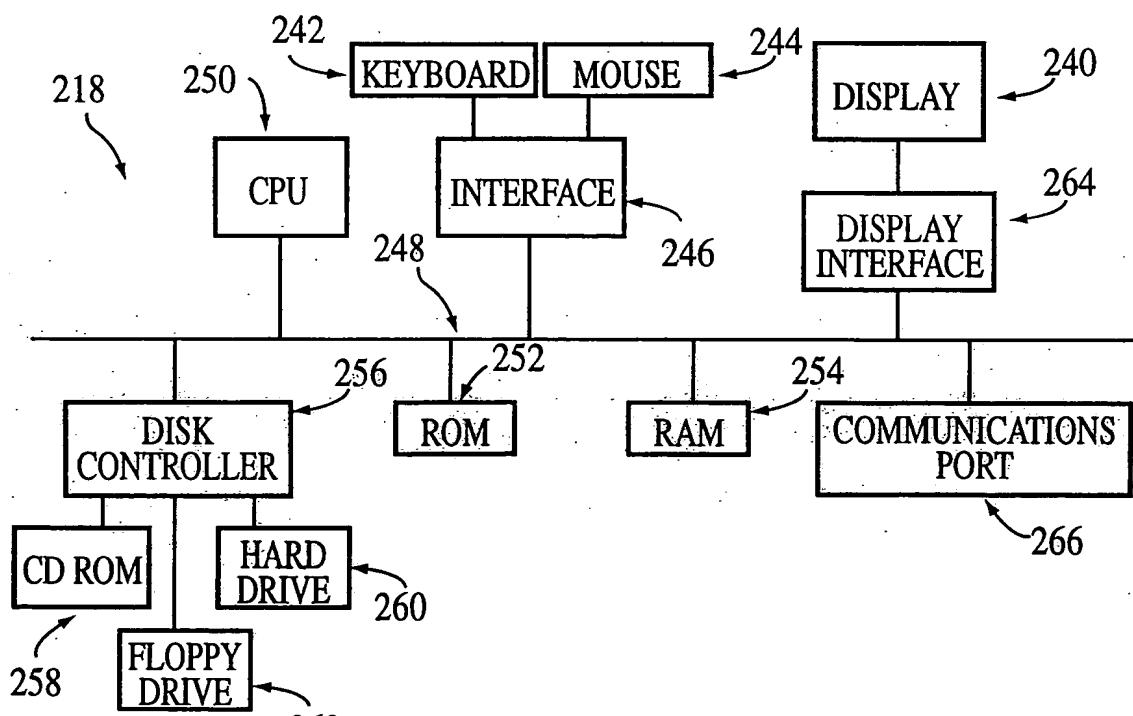
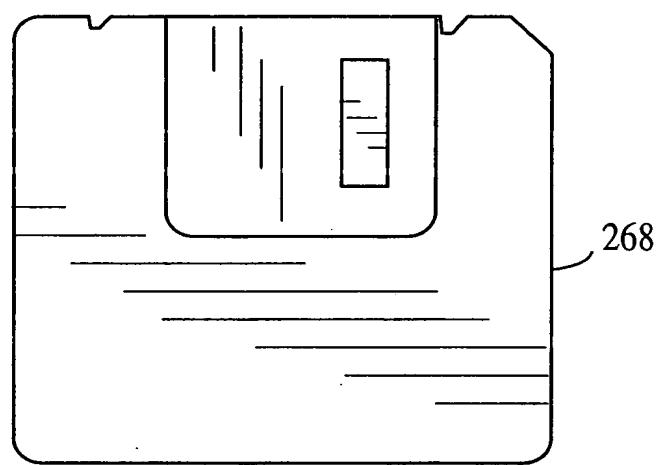


FIG. 18

20/21



**FIG.19**

21/21

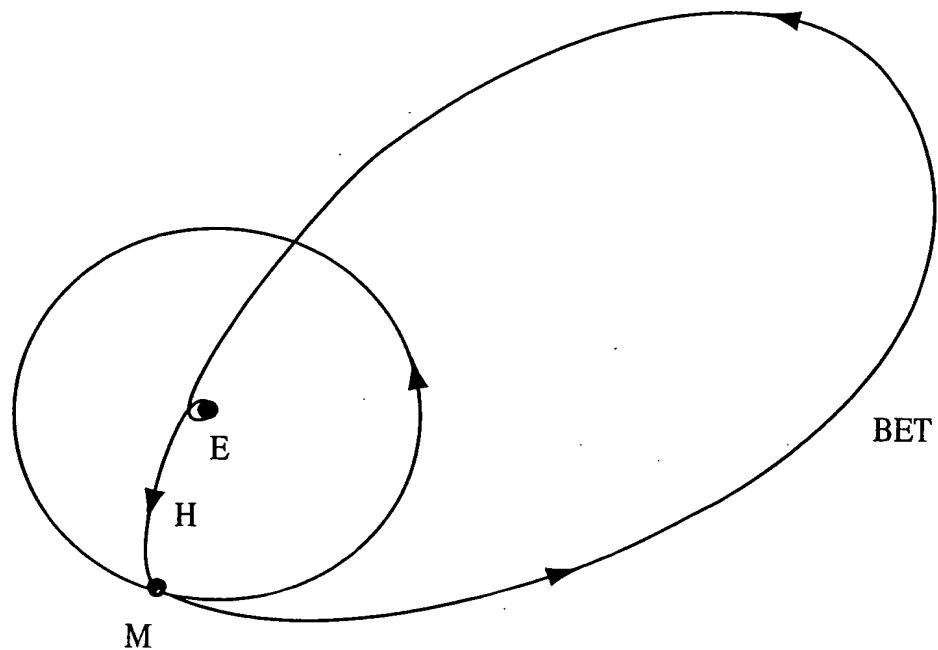


FIG. 20

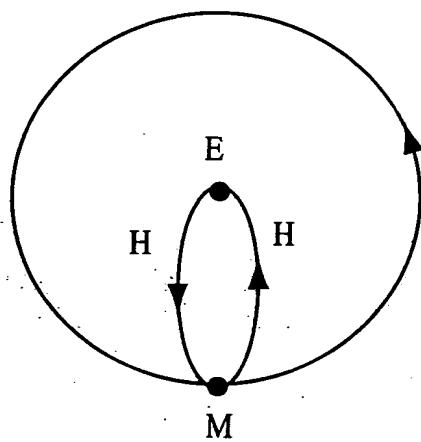


FIG. 21